

Title (en)

HYDROGEN GENERATING FUEL CELL CARTRIDGES

Title (de)

BRENNSTOFFZELLENKARTUSCHEN ZUR WASSERSTOFFERZEUGUNG

Title (fr)

CARTOUCHES DE PILES À COMBUSTIBLE GÉNÉRANT DE L'HYDROGÈNE

Publication

EP 3006803 A1 20160413 (EN)

Application

EP 15195906 A 20060612

Priority

- US 68953905 P 20050613
- EP 14164943 A 20060612
- EP 06784836 A 20060612

Abstract (en)

The present invention relates to a gas-generating apparatus (812) comprising a reaction chamber (818) containing a solid fuel (824), wherein the solid fuel (824) reacts with liquid fuel (822) contained in a reservoir to form hydrogen, wherein the liquid fuel (822) is introduced through a fluid path (882) into the reaction chamber (818) in response to a pressure differential between the reaction chamber (818) and at least one of the fluid path (882) and the reservoir, wherein the reservoir is a deformable bladder (844).

IPC 8 full level

F16L 37/34 (2006.01); **B01J 8/02** (2006.01); **H01M 8/06** (2016.01)

CPC (source: EP KR)

B01J 7/02 (2013.01 - EP); **B01J 8/082** (2013.01 - EP); **C01B 3/065** (2013.01 - EP); **C01B 3/32** (2013.01 - KR); **C10J 3/06** (2013.01 - KR); **F16L 37/34** (2013.01 - KR); **H01M 8/04** (2013.01 - KR); **H01M 8/04208** (2013.01 - EP); **H01M 8/065** (2013.01 - EP); **C01B 2203/066** (2013.01 - EP); **F17C 11/005** (2013.01 - EP); **Y02E 60/32** (2013.01 - EP); **Y02E 60/36** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP)

Citation (applicant)

"Here Come the Microengines", THE INDUSTRIAL PHYSICIST, December 2001 (2001-12-01), pages 20 - 25

Citation (search report)

- [L] WO 2006093735 A2 20060908 - BIC SOC [FRA], et al
- [E] EP 1911720 A1 20080416 - SEIKO INSTR INC [JP]
- [YA] US 2005036941 A1 20050217 - BAE IN TAE [US], et al
- [YA] EP 1375419 A2 20040102 - HEWLETT PACKARD DEVELOPMENT CO [US]

Cited by

CN106353121A; US11101475B2; US11362348B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006135896 A2 20061221; WO 2006135896 A3 20070503; AR 055968 A1 20070912; AU 2006257838 A1 20061221; BR PI0612134 A2 20101019; CA 2620962 A1 20061221; CA 2620962 C 20140225; CN 101243162 A 20080813; CN 101243162 B 20130424; CN 103213944 A 20130724; CN 103213944 B 20150729; EP 1891363 A2 20080227; EP 1891363 A4 20131030; EP 2775189 A1 20140910; EP 2775189 B1 20160203; EP 3006803 A1 20160413; EP 3006803 B1 20170809; JP 2008544453 A 20081204; JP 2013116471 A 20130613; JP 5791585 B2 20151007; KR 101330058 B1 20131118; KR 20080014870 A 20080214; MX 2007015798 A 20080304; MY 162216 A 20170531; TW 200703762 A 20070116; TW I369812 B 20120801

DOCDB simple family (application)

US 2006023025 W 20060612; AR P060102483 A 20060613; AU 2006257838 A 20060612; BR PI0612134 A 20060612; CA 2620962 A 20060612; CN 200680029332 A 20060612; CN 201310078400 A 20060612; EP 06784836 A 20060612; EP 14164943 A 20060612; EP 15195906 A 20060612; JP 2008517030 A 20060612; JP 2012267355 A 20121206; KR 20077029224 A 20060612; MX 2007015798 A 20060612; MY PI20062770 A 20060613; TW 95120781 A 20060612